

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-6. (Cancelled)

7. (Currently Amended) In a computer system including a host computer and a storage system which has a first volume for storing data from the host computer and a second volume, and a storage control unit for controlling data ~~transfer replication~~ from the first volume to ~~the-a said~~ second volume ~~that is the pair of said first volume~~, a data protection apparatus coupled to the host computer and the storage system, comprising:

an event detection unit for detecting an event occurrence; and
a replication stopping unit for instructing said storage control unit to stop data ~~transfer replication~~ from said first volume to said second volume ~~that is the pair of said first volume~~, when said event detection unit detects an event;

an illegal intrusion detection unit for detecting an illegal intrusion into said host computer;

wherein said event detection unit receives a detection of the illegal intrusion from said illegal intrusion detection unit; and

when said event detection unit receives the detection of the illegal intrusion, said replication stopping unit instructs said storage control unit to stop data transfer-replication from said first volume to said second volume that is the pair of said first volume.

8. (Cancelled)

9. (Currently Amended) A data protection apparatus in a computer system according to Claim 7, wherein:

said computer system further includes a computer virus detection unit for detecting a computer virus in said storage system;

said event detection unit receives the detection of the computer virus from said computer virus detection unit; and

when said event detection unit receives the detection of the computer virus, said replication stopping unit instructs said storage control unit to stop data replication-transfer from said first volume to said second volume that is the pair of said first volume.

10. (Currently Amended) A data protection method for protecting data in a computer system including a host computer and a storage system which has a first volume for storing data from the host computer and a second volume, and a storage control unit for controlling data replication transfer from said first volume to a said second volume that is a pair of said first volume, wherein said data protection method comprises steps of:

detecting an intrusion into said host computer; and
instructing said storage control unit to stop data replicationtransfer from said first volume to said second volume that is the pair of said first volume, when said intrusion is detected.

11. (Currently Amended) A program embodied on a storage medium that can be read by an information processing apparatus for making the information processing apparatus perform data protection in a computer system including a host computer and a storage system which has a first volume for storing data from the host computer and a second volume, and a storage control unit for controlling data replicationtransfer from said first volume to a said second volume that is a pair of said first volume, wherein said program makes said information processing apparatus perform processes of:

detecting that an intrusion into the host computer has occurred; and
instructing said storage control unit to stop data replicationtransfer from said first volume to said second volume that is the pair of said first volume, when said intrusion is detected.

12-13. (Cancelled)

14. (Currently Amended) In a computer system including a host computer and a storage system which has a first volume for storing data from the host computer and a second

volume, and a storage control unit for controlling data replicationtransfer from the first volume to the-a said second volume that is a pair of said first volume, a data protection apparatus coupled to the host computer and the storage apparatus comprising:

an event detection unit for detecting an event occurrence; and
a replication stopping unit for instructing said storage control unit to stop data replicationtransfer from said first volume to said second volume that is the pair of said first volume, when said event detection unit detects an event;

wherein said computer system further comprises an alteration detection unit that reads given data in said plurality of replicated volumes to detect respective differences between the given data; and

the event detected by said event detection unit is a detection result of the differences between the given data, with said detection result being received from said alteration detection unit.

15. (Currently Amended) A data protection apparatus in a computer system according to Claim 14, wherein:

write data to said first volume is transferred replicated by said storage control unit to said second volume with a delay of a given time.

16. (Currently Amended) A data protection apparatus in a computer system according to Claim 14, wherein:

as said second volume, a plurality of second volumes are provided; and
said storage control unit switches a replication transfer-destination of write data of
said first volume, at given time intervals among said plurality of second volumes.

17. (Currently Amended) A data protection apparatus in a computer system according to
Claim 16, wherein:

data ~~transferred-replicated~~ to said plurality of second volumes is further ~~transferred~~
replicated to another plurality of second volumes.

18. (Cancelled)

19. (Previously Presented) A data protection apparatus in a computer system
according to Claim 14, wherein:

said storage control unit further controls communication between said host computer
and said first volume; and

said data protection apparatus instructs said storage controller to stop communication
between said host computer and said first storage when said event detection unit detects said
event.

20. (Cancelled)

21. (New) A data protection apparatus in a computer system according to Claim 7, wherein said replication stopping unit further instructs said storage control unit to cancel data replication from said first volume to said second volume.
22. (New) A data protection apparatus in a computer system according to Claim 7, further including a path disconnection unit for instructing said storage control unit to stop communication between said host computer and said storage system, when said event detection unit detects an event.
23. (New) A data protection method according to Claim 10, further including the step of instructing said storage control unit to cancel data replication from said first volume to said second volume that is the pair of said first volume, when said intrusion is detected
24. (New) A data protection method according to Claim 10, further including the step of instructing said storage control unit to stop communication between said host computer and said storage system, when said when said intrusion is detected.
25. (New) A program embodied on a storage medium according to Claim 11, further including said program making said information processing apparatus perform the process of instructing said storage control unit to cancel data replication from said first volume to said second volume that is the pair of said first volume, when said intrusion is detected

26. (New) A program embodied on a storage medium according to Claim 11, further including said program making said information processing apparatus perform the process of instructing said storage control unit to stop communication between said host computer and said storage system, when said when said intrusion is detected.
27. (New) A data protection apparatus in a computer system according to Claim 14, wherein said replication stopping unit further instructs said storage control unit to cancel data replication from said first volume to said second volume.
28. (New) A data protection apparatus in a computer system according to Claim 7, further including a path disconnection unit for instructing said storage control unit to stop communication between said host computer and said storage system, when said event detection unit detects an event.